## IN THE CLAIMS:

Please cancel Claims 13, 28-38, 47, 67, 80-82, 85 and 90-94.
Please amend Claims 1, 14, 15, 39, 46, 48-50, 78-79, 83-84 and 88 as follows:

1. (Amended) A microelectronic spring structure, comprising: a substrate;

a beam, having a base portion, a cantilevered portion extending from said base portion, and a tip portion adjoining said cantilevered portion at an end thereof opposite to said base portion, said beam secured to said substrate at said base portion;

an elongate post component between said substrate and said beam, whereby said beam is spaced apart from and secured to said substrate, said post component comprised of a wire core coated with a structural material; and

a protruding member mounted to said substrate, and disposed under said cantilevered portion of said beam spaced apart from said tip portion;

wherein said microelectronic spring structure is reversibly deflectable between an undeflected position wherein the protruding member does not contact said beam, and a deflected position wherein said protruding member contacts said cantilevered portion of said beam at a position spaced apart from said tip portion.

- 14. (Amended) The microelectronic spring structure of Claim 1, wherein said post component comprises a column element.
- 15. (Amended) The microelectronic spring structure of Claim 1, wherein said post component comprises a group of column elements.

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39. (Amended) A microelectronic spring structure, comprising:

a substrate;

a beam, having a base portion, a cantilevered portion extending from said base portion, and a tip portion adjoining said cantilevered portion at an end thereof opposite to said base portion, said beam secured to said substrate at said base portion; wherein said beam is mounted to said substrate and said cantilevered portion thereof extends away from said substrate; and

a protruding member mounted to said substrate, and disposed under said cantilevered portion of said beam, said protruding member comprising a wire core bonded to said substrate and encased in a structural material;

wherein said microelectronic spring structure is reversibly deflectable between an undeflected position wherein the protruding member does not contact said beam, and a deflected position wherein said protruding member contacts said beam.

46. (Amended) The microelectronic spring structure of Claim 39, wherein said protruding member comprises a column, said column having a first end attached to said substrate, and a second end disposed under said beam above said substrate.

48. (Amended) A microelectronic spring structure, comprising:

a substrate

a beam, having a base portion, a cantilevered portion extending from said base portion, and a tip portion adjoining said cantilevered portion at an end thereof opposite to said base portion, said beam secured to said substrate at said base portion;

a protruding member connected to said beam, and disposed under said cantilevered portion of said beam; and

a tip structure for contacting a terminal of an electronic component, said tip structure mounted to and disposed above a surface of said beam opposite to said substrate;

wherein said microelectronic spring structure is reversibly deflectable between an undeflected position wherein the protruding member does not contact said substrate, and a deflected position wherein said protruding member contacts said substrate and said tip structure is reverse wined.

- 49. (Amended) The microelectronic spring structure of Claim 48, wherein said tip structure is located at a position intermediate between said base portion and said tip portion.
- 50. (Amended) The microelectronic spring structure of Claim 48, wherein said tip structure is mounted to said tip portion of said beam.

> 78. (Amended) A microelectronic spring structure, comprising: a substrate;

a beam, having a base portion, and a cantilevered portion extending from said base portion, said beam secured to said substrate at said base portion; and

an adjustable pressure device disposed—under said beam, wherein said adjustable pressure device comprises a mechanical actuator.

(Amended) The microelectronic spring structure of Claim 78, wherein said 79. beam further comprises a free end distal from said base portion, said free end being reversibly deflectable perpendicularly towards said substrate through a first elastic range, and wherein said adjustable pressure device is reversibly compressible perpendicularly towards said substrate though a second elastic range no less than half of said first elastic range.

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83. (Amended) The microelectronic spring structure of Claim 78, wherein said mechanical actuator comprises an elastic membrane enclosing a fluid.

84. (Amended) The microelectronic spring structure of Claim 78, wherein said mechanical actuator comprises an elastic membrane enclosing a fluid.

88. (Amended) The microelectronic spring structure of Claim 86, wherein said post component comprises a column element, said column element comprised of a wire core coated with a structural material.

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